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CONFIRMATION NO. ATTORNEY DOCKET NO. FIRST NAMED INVENTOR FILING DATE APPLICATION NO. 2663 ICB0098 Naci Basturk 02/15/2001 09/783,286 08/30/2002 7590 24203 EXAMINER GRIFFIN & SZIPL, PC QI, ZHI QIANG SUITE PH-1 2300 NINTH STREET, SOUTH PAPER NUMBER ART UNIT ARLINGTON, VA 22204 2871

DATE MAILED: 08/30/2002

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No		Applicant(s)	١
١.,		09/783,286		BASTURK, NACI	
	Office Action Summary	Examiner		Art Unit	
		O:		2871	
	The MAILING DATE of this communication ap	pears on the cov	er sheet with the c	orrespondence ad	ldress
A SHC THE M - Extens after S - If the p - If NO - Failure	PREPLY ORTENED STATUTORY PERIOD FOR REPLY IAILING DATE OF THIS COMMUNICATION sions of time may be available under the provisions of 37 CFR 1 SIX (6) MONTHS from the mailing date of this communication. period for reply specified above is less than thirty (30) days, a reperiod for reply is specified above, the maximum statutory perion to reply within the set or extended period for reply will, by statually received by the Office later than three months after the mailed patent term adjustment. See 37 CFR 1.704(b).	.136(a). In no event, ho aply within the statutory no d will apply and will expi	ninimum of thirty (30) da re SIX (6) MONTHS fron	ys will be considered time the mailing date of this (ly. communication.
Status				٠	
1)□	Responsive to communication(s) filed on	——· This action is nor	n-final.		
2a)□	This action is the term	to	r formal matters. I	prosecution as to	the merits is
3)□	Since this application is in condition for allo closed in accordance with the practice under	er Ex parte Quay	de, 1935 C.D. 11,	453 O.G. 213.	
Dispositi	ion of Claims				
4157	Claim(s) 1-12 is/are pending in the applicat	ion.	Laurtion		
,	4a) Of the above claim(s) is/are withd	Irawn from consid	deration.		
5)□	Claim(s) is/are allowed.				
6)⊠					
7)🖂	Claim(s) 7 is/are objected to.		viromont		
8)[]	Claim(s) are subject to restriction an	id/or election requ	uirement.		
Applicat	tion Papers				
9)[The specification is objected to by the Exam	niner. tod or b\□ ot	niected to by the E	xaminer.	
10)	The drawing(s) filed on is/are: a) a Applicant may not request that any objection to	ccepted or b) of	e held in abeyance	See 37 CFR 1.85(a).
•	Applicant may not request that any objection to	is: a)∏ app	proved b)∐ disap	proved by the Exa	miner.
11)[The proposed drawing correction filed on _				
<u> </u>	If approved, corrected drawings are required	e Examiner.			
	The oath or declaration is objected to by the	C Examination			
Priority	under 35 U.S.C. §§ 119 and 120	raign priority und	ler 35 U.S.C. § 11	9(a)-(d) or (f).	
13)	Acknowledgment is made of a claim for fo	reign priority and	0		
;	a)⊠ All b)□ Some * c)□ None of:		received.		
	1.⊠ Certified copies of the priority docur 2.□ Certified copies of the priority docur	ments have been	received in Appl	ication No	
	Certified copies of the priority docui Copies of the certified copies of the	ments have been	nts have been red	eived in this Natio	onal Stage
	application from the internation	a list of the certif	ied copies not red	eived.	
4.41	The statement is made of a claim for do	mestic priority un	Ider 35 0.5.0. 8	15(0) (10 0 p. 5 1 1	ionai application).
	* See the attached detailed Office action for a list of the certified deposition. 14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application). a) The translation of the foreign language provisional application has been received.				
15)[a)	omestic priority ur	nder 35 U.S.C. §	3 120 and/or 121.	
Attachr				mmary (PTO-413) Par	er No(s)·
1) 🔯 N	Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-9 nformation Disclosure Statement(s) (PTO-1449) Paper	148) No(s) <u>3</u> .	4) Interview Sur 5) Notice of Info 6) Other:	ormal Patent Application	on (P10-132)
3) [2]	Thomas Office			•	Part of Paper No. 5

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DETAILED ACTION

Drawings

Figures 1A, 2C, 3A, 3B, 4A, 4B, 5A, 5B should be designated by a legend such 1. as --Prior Art-- because only that which is old is illustrated. See MPEP § 608.02(g). A proposed drawing correction or corrected drawings are required in reply to the Office action to avoid abandonment of the application. The objection to the drawings will not be held in abeyance.

Claim Rejections - 35 USC § 112

- The following is a quotation of the second paragraph of 35 U.S.C. 112: 2. The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- Claim 9 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite 3. for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claim 9, recitation "the digital part of the first display device has a comparable structure to that of the second display device" is not definite. Because it cannot tell what is the comparable structure, and it does not give any clear definition of the comparable structure. For examination purpose, it is interpreted as the first display device has a dial timepiece structure displaying time and the second display device has a panel structure displaying character information.

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Claim Rejections - 35 USC § 103

4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 5. Claims 1-6 and 8-12 are rejected under 35 U.S.C. 103(a) as being unpatentable over Applicant admitted prior art.

Claim 1, Applicant admitted prior art (the specification of page 1, line 16 – page 5, line 2; Figs 1A and 2-5) a display assembly (1) comprising:

- two superposed display devices able to take two different states wherein one of the display device is visible to the exclusion of the other, and that was already known from EP patent 0926574; and that is a double structure, one structure being formed by a liquid crystal cell (26), and the liquid crystals being confined in a space delimited by two transparent substrates (30, 32) and having two switching states, the other structure being formed by a liquid crystal optical valve (28), and the liquid crystals being confined in a space delimited by two transparent substrates (31, 33) and having at least two switching states;
- control means (23 and 9) allowing an appropriate voltage to be selectively applied to the cell (26) and/or to all or part of the valve (28) to cause them to switch from one state to another;

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a polariser (absorbent linear polariser 40) (as a first polariser) is arranged at the front of the display cell (26); a polariser (reflective polariser 44) (as a second polariser) is arranged at the back of the valve (28); so that when the cell is switched to display at least one item of data, the total or partial switching of the valve, from one state to another, inverts the contrast of the data display from a light appearance to a dark appearance or vice versa, as a function of the light or dark shade of the first display device (the cell 26); the reflective polariser (44) placed at the back of the second display device (the optical valve 28).

Applicant admitted prior art discloses all the limitations described in the claim 1.

The structure of the display assembly having such double structures and having such contrast inversion to achieve the dial cooperates with an analogue display as the Applicant indicated that was already known in the art.

Therefore, it would have been obvious to those skilled in the art to arrange a two superposed contrast inversion display device having double structures as claimed in claim 1 for achieving the dial cooperates with an analogue display.

Claim 2, it is a basic principle for the liquid crystal display device to be switched from one state to another state, so that the liquid crystal display is to be made visible or not visible, and using a mirror mask such as a reflector or a black mask such as a light shielding layer to increase the contrast, and that would have been at least obvious.

Claim 3, the valve also is a liquid crystal display panel, and it is the basic principle to switch the liquid crystal panel with two opposite switching mode, so that

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would be light display or dark display, that is two types of data of the second display being observed with a contrast inversion, and that would have been at least obvious.

Claim 4, Applicant admitted prior art discloses (page 2, lines 28 – 31; page 3, lines 16 - 27) that the cell (26) and the valve (28) using positive or negative anisotropy nematic liquid crystal would obtain same effect. Therefore, the liquid crystals of the display assembly (the cell and the valve) using positive or negative anisotropy, and may be identical or different in the cell and in the valve as claimed in claim 4 would have been at least obvious.

Claim 5, Applicant admitted prior art discloses (Figs.1A and 5) that the first display device has a dark shade (dark segment display) and the front polariser (40) of the second display device (the cell 26 and the valve 28) is an absorbent type polariser and the back polariser (44) is a reflective type polariser crossed with the front polariser (40).

Claim 6, it is a reverse version of a display, such as Applicant disclosed in Fig.3, in which the first display device has a light shade (light segment display) and that would reverse the arrangement to obtain a light color on a dark background. Therefore, it would have been at least an obvious variation for achieving a light color on a dark background display.

Claim 8, Applicant admitted prior art discloses (page 1, lines 29-31; Fig.1A) that the first display device is an analogue device such as hands (12,14,16) and dial (18).

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Claim 9, Applicant admitted prior art discloses (Fig.1A) that the first display device has a dial timepiece structure displaying time and the second display device has a panel structure displaying character information, and that is a comparable structure.

Claim 10, Applicant admitted prior art discloses (Fig.1A) that the first display device such as the hands (12,14,16) and dial (18) essentially displaying time related data and the second display device (24) displaying time related data complementary to the preceding data or non time related data of sensor systems or processing systems such as alphanumerical, and integrated in a case of the timepiece.

Claim 11, Applicant admitted prior art discloses (page 1, lines 22 - 31; Fig.1A) that the first display device (22) includes a dial (18) above which move the hour, minute and second hands (12,14 and 16).

Claim 12, Applicant admitted prior art discloses (page 1, lines 34-35; Fig.1A) that the second display device (24) is formed of a sandwich type structure including crystal (20), so that the second display device is combined with crystal.

Allowable Subject Matter

6. Claim 7 is objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

The prior art of record neither discloses nor teaches a display assembly comprising various elements, more specifically, as the following:

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the transparent substrates opposite the cell and the valve are combined in a single transparent substrate.

The closest references Applicant admitted prior art and EP 0930522, EP 0926574 disclose a display assembly having superposed double structure using absorbent polariser and reflective polariser to obtain a contrast inversion display, but the prior art of record do not disclose the display structure in which the transparent substrates opposite the cell and the valve are combined in a single transparent substrate as claimed.

> TOANTON PRIMARY EXAMINER

Conclusion

- The prior art made of record and not relied upon is considered pertinent to 7. applicant's disclosure.
- Any inquiry concerning this communication or earlier communications from the 8. examiner should be directed to Mike Qi whose telephone number is (703) 308-6213. The examiner can normally be reached on 349.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, William Sikes can be reached on (703) 308-4842. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 308-7721 for regular communications and (703) 308-7721 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0956.

Mike Qi August 5, 2002

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